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WHAT IS CLAIMED IS:

1. A method for manufacturing a semiconductor package, said method comprising:

providing a wafer including one or more semiconductor chips, each chip having one or more mirrors formed thereon, a plurality of bond pads formed on a periphery of the chip;

forming a photoresist over the one or more mirrors;

singulating the one or more semiconductor chips from the wafer;

mounting the one ore more semiconductor chip on a top surface of a base substrate;

electrically interconnecting the bond pads of the semiconductor chip to the base substrate; and

removing the photoresist from the semiconductor chips.

2. The method of claim 1, wherein said singulating comprises full-cutting the wafer.

3. The method of claim 1, after said forming the photoresist, further comprising: forming a metallic layer over a back surface of the wafer, wherein said mounting is performed using a metallic adhesive.

4. The method of claim 1, further comprising:

hermetically sealing each attached semiconductor chip on the upper surface of the base substrate.

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5. A method for manufacturing digital micro-mirror device (DMD) packages, said method comprising:

providing a wafer including a plurality of DMD semiconductor chips, each chip having one or more mirrors formed on substantially the center of an active surface of the chip, a plurality of electrode pads formed on the periphery of the active surface;

forming a photoresist over the mirrors;

forming a metallic layer on a back surface of the wafer; separating the wafer into the individual semiconductor chips; mounting each semiconductor chip on an upper surface of a base substrate; 5

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interconnecting the electrode pads of the semiconductor chip to the base substrate with one or more bonding wires;

removing the photoresist from the semiconductor chips;

forming an anti-sticking film on the active surface of the semiconductor chip for protecting the semiconductor chips from dust and moisture; and

hermetically sealing the semiconductor chip and the bonding wires on the upper surface of the base substrate.

- 6. The method of claim 5, wherein the metallic layer is made of a metal having a low melting point, said metal being selected from the group consisting of Va, Au, Ni, Ag, Cu, Al, Pb, Sn, Sb, Pd and metal-containing compounds thereof.
 - 7. The method of claim 5, wherein the base substrate is selected from the group consisting of a ceramic board, a plastic board and a printed circuit board.
 - 8. The method of claim 5, wherein said forming a metallic layer comprises lapping the back surface of the wafer and forming the metallic layer made of a metal having a low melting point on the back surface.
 - 9. The method of claim 5, wherein said metal adhesive is solder.
 - 10. The method of claim 5, wherein said hermetically sealing of the semiconductor chip and the bonding wires comprises providing a metal sealing ring to the base substrate on a periphery of the base substrate and hermetically sealing the semiconductor chip and the bonding wires by attaching a window lid to the upper surface of the metal sealing ring, and wherein a distance between the upper surface of the base substrate and the lower surface of the window lid is greater than the height of the one or more bonding wires.
- 30 11. The method of claim 10, wherein said window lid comprises a metal lid frame in contact with the metal sealing ring, a window perforating the metal lid frame generally in the center of said window lid, a reflectance coating film formed on the lower surface of the window on a periphery thereof, and a moisture getter attached to lower surface of the metal lid frame.

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- 12. The method of claim 5, after said hermetically sealing the semiconductor chip and the one or more bonding wires, which further comprises attaching a heat sink stud to the lower surface of the base substrate.
- 13. The method of claim 1, wherein said hermetically sealing the semiconductor chip and the bonding wires is performed at a predetermined temperature, said predetermined temperature being not higher than the temperature on which said attaching the semiconductor chip to the base substrate is performed.
 - 14. A digital micro-mirror device (DMD) packages, comprising:
 - a base substrate having a top surface and a bottom surface;
 - a metallic layer formed on the top surface of the base substrate;
 - a metallic adhesive formed on the metallic layer;
 - a semiconductor chip mounted on the metallic adhesive, the base substrate electrically connected with the semiconductor chip;

one or more mirrors mounted on the semiconductor chip;

- a hermetic sealing means covering the semiconductor chip including the one more mirrors.
- 15. The DMD package of claim 14, which further comprises a heat sink attached on the bottom surface of the base substrate.

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